

JAY MARTIN
CHAIRMAN
DANNY EARP
VICE-CHAIRMAN



CHUCK ENGELKEN
MEMBER
JOHN ZEMANEK
ALTERNATE

CITY OF LA PORTE DRAINAGE AND FLOODING COMMITTEE MEETING AGENDA

Notice is hereby given of a meeting of the Drainage and Flooding Committee of the City Council of the City of La Porte, to be held November 12, 2018, in the City Hall Council Chambers, 604 W. Fairmont Parkway, La Porte, Texas, beginning at 5:00 PM to consider the following items of business.

1. **Call to order**
2. **Authorizations**
 - (a) Consider approval or other action regarding minutes of the meeting held on October 8, 2018 - P. Fogarty
3. **Staff Reports**
 - (a) Receive report from Harris County Flood Control District and Harris County Precinct 2 regarding current and future plans relating to flooding in the City of La Porte - L. Wingate/D. Pennell
 - (b) Discussion regarding Harris County's Method of Distribution (MOD) for the Community Development Block Grant-Disaster Recovery (CDGB-DR) Round 1 Funds for Hurricane Harvey - L. Wingate/D. Pennell
 - (c) Receive Staff report providing update (s) on various drainage projects - L. Wingate/D. Pennell
 - (d) Discussion regarding additional drainage concerns and provide Staff with direction - L. Wingate/D. Pennell
4. **Set date for next Drainage and Flooding Committee Meeting**
5. **Committee Member Comments** - Matters appearing on agenda; Recognition of community members, city employees, and upcoming events; Inquiry of staff regarding specific factual information or existing policy
6. **Executive Session** - The City of La Porte Drainage and Flooding Committee reserves the right to meet in executive session on any agenda item should the need arise and if authorized by the Texas Open Meetings Act, Title 5, Chapter 551, of the Texas Government Code.
7. **Adjourn**

In compliance with the Americans with Disabilities Act, the City of La Porte will provide for reasonable accommodations for persons attending public meetings. To better serve attendees, requests should be received 24 hours prior to the meetings. Please contact Patrice Fogarty, City Secretary, at 281.470.5019.

Councilmembers may attend in numbers constituting a quorum. This is a Drainage and Flooding Committee Meeting at which there will be no deliberation or formal action taken by City Council as a governmental body.

CERTIFICATION

I certify that a copy of the November 12, 2018 , agenda of items to be considered by the Drainage and Flooding Committee was placed on the City Hall Bulletin Board on November 6, 2018.

Patrice Fogarty, City Secretary

JAY MARTIN
Chairman

DANNY EARP
Vice-Chairman



CHUCK ENGELKEN
Member

JOHN ZEMANEK
Alternate Member

MINUTES OF DRAINAGE AND FLOODING COMMITTEE MEETING HELD OCTOBER 8, 2018

The Drainage and Flooding Committee of the City of La Porte met on **Monday, October 8, 2018**, at the City Hall Council Chambers, 604 West Fairmont Parkway, La Porte, Texas, at **5:00 p.m.** to consider the following items of business:

1. Call to Order

Chairman Jay Martin called the meeting to order at 5:00 p.m. The following members of the Drainage and Flooding Committee were present: Committee Members Danny Earp, Chuck Engelken and John Zemanek. Staff Present: Corby Alexander, Don Pennell, Lorenzo Wingate, and Patrice Fogarty.

2. Authorizations

- (a)** Consider approval or other action regarding minutes of the Drainage and Flooding Committee Meeting held on September 10, 2018– P. Fogarty

Committee Member Engelken moved to approve the minutes of the Drainage and Flooding Committee Meeting held on September 10, 2018, as presented. Committee Member Earp seconded. **MOTION PASSED 4/0.**

3. Staff Reports

- (a)** Receive report from Harris County Flood Control District and Harris County Precinct 2 regarding current and future plans relating to flooding in the City of La Porte – L. Wingate/D. Pennell

City Engineer Lorenzo Wingate provided a report on the Harris County Commissioners Court meeting held on September 25, 2018.

Committee Member Engelken commented that a number of residents in the Brookglenn subdivision completed forms for the potential buyout program and have not heard anything back from Harris County Flood Control District. In addition, Committee Member Engelken commented he is interesting in obtaining the list of addresses targeted for potential buyouts.

Jeremy Ratcliff with Harris County Flood Control District reported AECOM Technical Services, Inc., is the company for a flood mitigation analysis near the Brookglenn Subdivision.

Committee Member Engelken advised Mr. Ratcliff that Klotz and Associates conducted an analysis and reported that Harris County Flood Control District were at fault with their previous decisions with the construction of Canada Road.

Committee Member Zemanek requested any information available for buyout offers in the Braeswood in Houston.

- (b) Receive report regarding Harris County's Method of Distribution (MOD) for the Community Development Block Grant-Disaster Recovery (CDGB-DR) Round 1 Funds for Hurricane Harvey – L. Wingate/D. Pennell

City Engineer Lorenzo Wingate presented a summary and reported on the application process and the \$352,775.30 allocations. Mr. Wingate also provided the National Oceanic and Atmospheric Administration's (NOAA) rainfall totals.

- (c) Discussion regarding drainage concerns and provide Staff with direction – L. Wingate/D. Pennell

Committee Member J. Martin reported on the drainage concern on Crescent Drive.

City Engineer Lorenzo Wingate reported Staff is waiting on grant funds for the F101 Project.

Committee Earp requested Staff to look at culverts holding water on H, L and P Streets.

Public Works Director Don Pennell reported Staff has received the update of the survey for H Street and reported on the F216 Desilting.

4. Set date for next Drainage and Flooding Committee Meeting

The next meeting date was set for November 12, 2018, at 5:00 p.m.

5. Committee Comments

Committee Members Earp and J. Martin thanked Staff for their attention to the drainage issues.

6. ADJOURN

Committee Member Engelken made a motion to adjourn the meeting at 5:25 p.m. Committee Member Earp seconded the motion. **MOTION PASSED UNANIMOUSLY 4/0.**

Respectfully submitted,

Patrice Fogarty, City Secretary

Passed and approved on this 12th day of November, 2018.

Chairman, Jay Martin

REQUEST FOR DRAINAGE COMMITTEE AGENDA ITEM

Agenda Date Requested: <u>November 12, 2018</u>
Requested By: <u>Lorenzo Wingate</u>
Department: <u>Public Works</u>
<input checked="" type="radio"/> Report <input type="radio"/> Resolution <input type="radio"/> Ordinance

Appropriation	
Source of Funds:	_____
Account Number:	_____
Amount Budgeted:	_____
Amount Requested:	_____
Budgeted Item:	<input type="radio"/> Yes <input type="radio"/> No

Exhibits:

SUMMARY & RECOMMENDATION

Receive report regarding Harris County Flood Control District current and future plans relating to flooding in the City of La Porte.

- **Brookglen Flooding Mitigation**

Staff met with HCFCD on October 17, 2018 and participated in a conference call with HCFCD and AECOM to discuss the approach to addressing flooding issues within the Brookglen subdivision. Staff provided HCFCD with copies of all existing reports/studies relative to the proposed project area. Copies of the reports/studies were also forwarded to AECOM.

In effort to identify the most beneficial improvement option(s), the alternatives provided within the August 2009 "*Diversion of HCFCD Unit B112-02-00 to Unit B109-03-00*" report, prepared by Klotz Associates, will be reviewed to verify feasibility and potential benefit(s) of improvements proposed within the aforementioned report. The scope of the design phase is anticipated to be defined upon completion of these preliminary evaluation efforts.

ACTION REQUIRED

Receive report.

Approved for Drainage Committee Agenda

Corby D. Alexander, City Manager

Date

REQUEST FOR DRAINAGE COMMITTEE AGENDA ITEM

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Exhibits:

SUMMARY & RECOMMENDATION

Hurricane Harvey Community Development Block Grant Disaster Recovery (CDBG-DR) Harris County Method of Distribution (MOD)

The City of La Porte has been allocated \$3,472,757.00 in CDBG-DR funding for infrastructure projects damaged by or failed to function during Hurricane Harvey through the Harris County Method of Distribution. Seventy percent (70%) of funding must service Low to Moderate Income (LMI) persons/communities.

Tentative Timeline

- ~~✓ August 20, 2018~~ - Notice of Intent to participate in MOD due.
- ~~✓ September 2018~~ - Complete local MOD for Court approval (9/25/18) and submission to GLO
- ~~✓ September-October 2018~~ - MOD cities conduct public meeting
- ~~✓ Mid-September 2018~~ - Release CDBG-DR Infrastructure Application/RFP
- ✓ **Mid-October 2018** - CDBG-DR Infrastructure Application Due Date (*Staff submitted application*)
- **November 2018** - Harris County completes CDBG-DR Infrastructure projects submission packet and releases for 14-day public comment period and 2 public hearings
- **December 4, 2018** - CDBG-DR Infrastructure projects submission packet submitted to Court for approval and resolution to submit
- **January 2019** - GLO executes CDBG-DR Infrastructure contract with Harris County

ACTION REQUIRED

Discussion regarding Community Development Block Grant Disaster Recovery Harris County Hurricane Harvey Method of Distribution.

Approved for Drainage Committee Agenda

Corby D. Alexander, City Manager

Date

REQUEST FOR DRAINAGE COMMITTEE AGENDA ITEM

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Exhibits: Drainage Projects

SUMMARY & RECOMMENDATION

Refer to attached Exhibit(s) for updates on various drainage projects throughout the City.

ACTION REQUIRED

Consider the items presented and discussed and provide direction to staff.

Approved for Drainage Committee Agenda

Corby D. Alexander, City Manager

Date

DRAINAGE PROJECTS

NO.	PROJECT	DESCRIPTION	Status
1	Brookglen Flooding Mitigation Analysis	The 2009 City-wide Drainage Study identifies the Brookglen subdivision as an area with significant drainage/flooding problems, attributed to a mixture of inadequate sewerage and insufficient channel capacity within the B112-00-00 Channel. Compounded improvements recommended within the City-wide Drainage Study could reduce the flood risk within the Brookglen area. This analysis would expand upon the recommendations provided within 2009 study.	Project has been funded within FY19 budget. Staff has submitted a grant application to supplement funding this project. Staff is also coordinating with HCFCD on plans for improvements within this watershed.
2	Bayside Terrace Drainage Improvements	Approximately 800 linear feet of RCP pipe, ranging in size from 15" to 24", exists within the Bayside Terrace Subdivision, which has not been properly maintained due to access issues attributed to limited access to infrastructure, provided within a five foot utility easement. Portions of Hamilton Street and Fondren Street utilize this system to convey stormwater to its outfall point of Galveston Bay. The system fails to function properly, causing flooding within the adjacent portion(s) of the subdivision. A proposed drainage study would discuss feasibility of rerouting this flows from the 800 feet of RCP, towards Bayside Dr. and utilizing the existing system within Bayside Dr. to convey the storm water within the existing system.	Project has been funded within FY19 budget. Staff is preparing a grant application to supplement funding this project.
3	Lomax/F101-03-00 Drainage Channel Improvements	Harris County Flood Control District's (HCFCD) F101-06-00 Channel system conveys storm water runoff from the Lomax area and ultimately outfalls into Lower San Jacinto Bay. The downstream section of the channel has been improved to ultimate capacity. An existing pipeline corridor, containing several pipelines located at depths ranging from approximately 2' to 18', cross the channel, limiting the depth of potential channel improvements. Moderate/heavy rain events, compounded with backwater conditions from this section of the channel, contributes to wide-spread flooding within the Lomax Area.	KSA's feasibility study provided 3 alternatives for crossing the pipeline corridor. Prior to design, recalculation of the hydrology for the corridor is recommended. Project has been funded within FY19 budget. Staff is preparing a grant application to supplement funding this project.
4	Little Cedar Bayou F216 Phase III Improvements	<p>Phase I and Phase II Improvements to Little Cedar Bayou, from Hwy 146 to Madison, have either been completed or are currently awarded for construction. Phase I and Phase II improvements include, but are not limited to, excavating and disposing off-site soil as required for the new channel alignment, clearing and grubbing, demolition of existing structures, erosion control, and site restoration for approximately 5,533 LF of channel.</p> <p>Approximately 4,680 LF of channel remains unimproved upstream, with those improvements slated to be included within this project, to be considered Phase III. Survey data has been collected on this most upstream section. Routine maintenance of clearing overgrowth, trees, and obstructions; minor erosion control and slope stabilization; and desilting is planned to maintain existing conveyance capacity. Those maintenance operations are projected to begin late 4th quarter 2018 or early 1st quarter 2019 (calendar year).</p> <p>The following Phase III mitigation action is proposed, as recommended within the Hydraulic Analysis for Little Cedar Bayou Watershed HCFCD Unit F216-00-00: lowering the flow line of the Bayou 1 - 2 feet, from W. Madison to Sens Rd. Current channel side slopes would be modified to achieve 3:1 side slopes from W Madison St. to Sens Rd. An estimated 200,000 cubic yards are to be excavated from the channel. Over excavation is provided to yield sufficient storage volume in the pond after siltation and build-up in the pond bottom.</p>	Project has been funded within FY19 budget. Staff is preparing a grant application to supplement funding this project.

NO.	PROJECT	DESCRIPTION	Status
5	6th Street Madison to Main Paving and Drainage	The segment of 6th St from W. Madison St to W. Main St is considered part of Old La Porte, which was generally noted in the City-Wide Drainage Study as not having sufficient storm sewer capacity due to undersized storm sewer, undersized storm inlets, or not enough storm inlets. RPS-Klotz provided an analysis of the existing storm sewer system and identified problem areas within the project limits. Additional analysis is required to determine most efficient improvement alternative.	CDBG allocations are intended to be utilized to supplement this project's funding. Application for 2015 allocation is currently pending GLO review. Application for Harvey allocation is pending Harris County review.
6	8th & D Storm Water Conveyance Improvements	The area generally bounded by 8th Street to the west, Main Street to the north, 5th Street to the east, and D Street to the south experiences flooding during heavy rain events due to undersized culverts within the area. Increasing culvert sizes within the area will provide additional conveyance capacity within the existing open ditch system.	Staff is preparing a grant application to supplement funding this project.
7	Bob's Gully	Obtained drainage easement along East B Street ROW in Morgans Point from Boys and Girls Harbor. Coordinate with Harris County Flood Control & the Army Corp of Engineers to determine maintenance responsibilities.	Project has been funded within the FY19 budget.
8	Little Cedar Bayou F216 Phase II Improvements	Improvements to Little Cedar Bayou, from Madison Street to 450 feet south of Spencer Highway. Work of the Contract includes, but is not limited to, excavating and disposing off-site approximately 25,984 CY of soil as required for the new channel alignment. Clearing and grubbing, demolition of existing structures, erosion control, and site restoration for approximately 7 acres and planting approximately 400 3-gallon trees. Construction contract awarded to Paskey.	Contractor has completed all preliminary site preparation.
9	Pine Bluff/ Bayshore	Pine Bluff Subdivision Improvements project includes the reconstruction of streets and storm facilities along Bay Shore Drive, Pine Bluff Street and the lettered streets (A thru F) within the Pine Bluff Subdivision. Construction contract awarded to Angel Bros.	Currently replacing waterline. Storm sewer improvements have not begun.
10	North P Street Culvert Improvement	Using the January 2009 City Wide Drainage Study prepared by Klotz Associates, Inc., Klotz Associates, Inc. provided a report in 2011 analyzing flooding in the Battleground Estates which indicated that flows within segments of the F101 Channel, north of N 'P' Street, rise to a level creating capacity limitations which produce frequent out of banks occurrences. The unimproved upstream channel flows into two forty-two inch (42") corrugated metal pipes (CMP), which feed into the improved two 8' x 10' reinforced concrete boxes downstream. LJA Engineering, Inc. provided Engineering Design Services for the recommended improvements of removing the two upstream forty-two inch (42") corrugated metal pipes and extending the dual 8' x 10' reinforced concrete boxes across N 'P' Street. Construction contract awarded to Paskey.	North P Culvert Extension project is 85% complete. Outstanding items include pouring concrete collar to tie in existing CMP with new CMP, removal of excavated material from site, and desilting new boxes. Substantial completion was expected September 25, 2018.
11	Crescent View Subdivision Drainage Improvements	Staff is in the process of developing options and determining feasibility of drainage improvements within the Crescent View subdivision. At this stage of preliminary planning, staff is considering utilizing the approximate fifteen foot (15') wide strip of land between lots 3 & 4, 2715 Crescent & 2803 Crescent, respectively, for the construction/installation of the following improvement options within the fifteen foot (15') wide strip: 1) construction/installation of and underground storm sewer collection system, discharging into the bay; 2) construction of a depressed earthen swale, discharging into the bay; 3) construction/installation of a depressed concrete-line swale, discharging into the bay. None of the improvements are intended to inhibit access to the bay via the fifteen foot (15') wide strip.	Staff will be delivering notices to the residents with the subdivision, to assess the property owners' willingness to utilize an area of the subdivision for drainage improvements.

NO.	PROJECT	DESCRIPTION	Status
12	Coupland Drive	The proposed storm sewer improvements include re-sloping Coupland Drive to drain towards inlets located throughout the subdivision. The inlets will drain into proposed storm sewer ranging in size from 24" to 30" RCP. This storm sewer will then flow underneath the existing roadside ditch along L Street to a combined outfall with the existing roadside ditch to Big Island Slough. The proposed storm sewer underneath the existing ditch on L Street will be 42" RCP and the combined outfall will need to be a 60" RCP. These improvements will result in no net fill within the Big Island Slough 100-year floodplain. The proposed storm sewer was sized for the 5 year storm event, per the City of La Porte drainage criteria.	HDR preparing 30% design.
13	Airport Off-site Drainage Improvements	Evaluation of the performance of airport drainage system at the west and north boundaries of the airport to address concerns that the airport drainage system may be overwhelmed, in extreme events, leading to stormwater flowing into neighborhoods adjacent to the airport.	Drainage report completed. Preliminary design started.
14	Airport On-site Drainage Improvements	On-site and offsite study determined there is no impact from airport drainage run off to the area north(Lomax) of the airport. The study determined there is impact to the Glen Meadows Subdivision. Onsite detention and increased capacity will be designed to mitigate the impact on Glen Meadows.	Drainage report completed. Preliminary design started.

REQUEST FOR DRAINAGE COMMITTEE AGENDA ITEM

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Requested By: <u>Lorenzo Wingate</u>
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Budgeted Item:	<input type="radio"/> Yes <input type="radio"/> No

Exhibits:

SUMMARY & RECOMMENDATION

Opportunity to discuss any drainage concerns not covered by previous items.

ACTION REQUIRED

Provide staff direction, as necessary.

Approved for Drainage Committee Agenda

Corby D. Alexander, City Manager

Date